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Time dimension parameters of the dual-porosity reservoir determination using periodic hydraulic pulse testing

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Abstract

© 2016 Marat Ovchinnikov and Kushtanova Galiya Gatinishna.The process of periodic hydraulic pulses propagation in porous fractured media of dual-porosity near a vertical well is considered. Using the calculation data as the base, it is shown that the effect of the time dimension constant on the form of the filtration wave curves is essential. The conclusions on possibility of hydrodynamic model types verification which adequately describe the filtration flows in considered media. The method for calculation of the dimensional time constants in equations for the non-stationary filtration is proposed.

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Keywords

Filtration, Fractured porous media of dual-porosity, Hydraulic pulses, Time dimension constants